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ENERGY RESEARCH INFORMATION SYSTEM

A Program of:

The Old West Regional Commission
Billings, Montana

in cooperation with

Argonne National Laboratory
and
U.S. Geological Survey

Projects Report
Cumulative Indexes

Vol. 3, No. 3
January 1979

Project Nos. 00001081 through 00001362

ENERGY RESEARCH INFORMATION SYSTEM

PROJECTS REPORT
CUMULATIVE INDEXES

VOLUME 3, NUMBER 3

OLD WEST REGIONAL COMMISSION

AND

U.S. GEOLOGICAL SURVEY, WATER RESOURCES DIVISION
U.S. DEPT. OF ENERGY, ARGONNE NATIONAL LABORATORY

BILLINGS, MONTANA

JANUARY 1979

I

PREPARED BY

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OLD WEST REGIONAL COMMISSION
HEDDEN-EMPIRE BUILDING, SUITE 228
BILLINGS, MONTANA 59101

IN COOPERATION WITH

U.S. GEOLOGICAL SURVEY, WATER RESOURCES DIVISION

AND

U.S. DEPT. OF ENERGY, ARGONNE NATIONAL LABORATORY

II

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INTRODUCTION

The Energy Research Information System (ERIS) is a service administered by the Old West Regional Commission in response to the need for current information on research activities in the region's rapidly growing and changing field of energy. Cooperating with the Commission on ERIS are the U.S. Geological Survey and Argonne National Laboratory.

The purpose of ERIS is to compile and make available to the users in the Region an up-to-date inventory of ongoing and recently completed energy-related research projects.

The term "energy-related" covers a broad spectrum of activities and encompasses a large volume of research. Nonetheless, ERIS attempts to report energy-related research projects in as comprehensive a manner as possible. The subject areas covered are: reclamation, energy conversion, and land use research, socioeconomic impact and renewable energy resources studies, as well as programs related to energy development which do not necessarily involve research.

By facilitating communication among researchers and allowing public and private sector decision-makers access to Regional energy research, ERIS aims to improve information exchanges among energy research users. The system can be used as an aid in conducting research, avoiding duplication of effort, and pinpointing areas of additional research need.

The geographical focus of ERIS is the Old West Region--Montana, Nebraska, North Dakota, South Dakota, and Wyoming. However, peripheral states or nationwide efforts are covered as they are related to regional work.

The compilation of energy research projects in the ERIS reports has been accomplished by combining ERIS's own information-gathering efforts with those of other clearinghouses--most notably, Oak Ridge National Laboratory, the Smithsonian Science Information Exchange, the Montana Energy Office, the North Dakota Regional Environmental Assessment Program, the University of Wyoming, Rocky Mountain Institute on Energy and Environment and other energy agencies in the Old West Region.

Use of the Energy Research Information System

ERIS Projects Reports

ERIS information is stored in a computerized data base. As the data base grows, periodic reports are printed which list the latest contents of the data base. the first such report was issued in November, 1975.

Access to ERIS is available through subject oriented sections and through the indexes located at the end of the listings. These indexes are: Location, Personal Name, Organization, and Subject Keyword. Instructions for the use of the indexes precede each section.

Please note that ERIS provides a listing but not the actual document referred to in the publication section of each abstract. Document delivery is best accomplished by contacting the local library system or by contacting the investigator or sponsor of any particular project.

All ERIS listings are available from the ERIS staff or from the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161.

Computer Search Service

The holdings of ERIS are computerized, allowing for flexibility in conducting special searches of the data base. The computer search service is offered as a complement to the ERIS Projects Reports. If your inquiry concerning energy research cannot be answered by manual use of the reports, contact a member of the ERIS staff and request that a special search be conducted.

Cumulative Indexes

The cumulative indexes provided in this Projects Report make reference to project information in the two Reports printed previously this year. The three Projects Reports of Volume 3 comprise a set of information; previous issues should not be discarded.

For your information in using the Cumulative Indexes, please note the following:

-Projects Report, Volume 3, No. 1 (August 1978) contains project numbered 000001081 to 00001224.

-Projects Reports Volume 3, No. 2 (December 1978) contains projects numbered 00001225 to 00001362.

The Old West Regional Commission is a Federal-State partnership designed to address regional economic problems and stimulative orderly economic growth in the states of Montana, Nebraska, North Dakota, South Dakota and Wyoming. Established in 1965 under the Public Wroks and Economic Development Act of 1965, it is one of eight such commissions in the United States.

The Land Reclamation Program at Argonne National Laboratory is conducting coordinated applied and basic research into the physical and ecological problems of land reclamation related to surface mining of coal and developing cost-effective techniques for reclaiming/rehabilitating mined coal land to productive end uses. The purpose of this program is to conduct integrated research and development projects focused on near- and long-term reclamation problems in all major U.S. coal resource regions including Alaska and to coordinate, evaluate, and disseminate the results of related studies conducted at other research institutions.

The function of the Water Resources Division of the Geological Survey is to provide data and reports on the availability and quality of water required for conversion of coal and oilshale to other forms of energy, to monitor the effects of mining and related developments on regional water systems, and to conduct investigations and research in methods of measuring and predicting the effects of mining and associated operations on local and regional water users.

HOW ERIS IS ORGANIZED

- PROJECTS REPORTS (formerly called Quarterly Reports) contain descriptions of energy research in the Old West Region.
- Each REPORT is indexed according to Location, Name, Organization, and Subject.

- CUMULATIVE INDEXES are provided once a year to incorporate previous indexes of the year's PROJECTS REPORTS under one cover.
- Project descriptions are not included with the Cumulative Index.
- CUMULATIVE INDEXES and the year's PROJECTS REPORTS comprise a set of information.

VOLUME ONE

Vol. 1, No. 1 (Nov. 1975)
Project numbers
00000001 to 00000300
Indexes to contents

Vol. 1, No. 2 (Feb. 1976)
Project numbers
00000301 to 00000393
Indexes to contents

Vol. 1, No. 3 (May 1976)
Project numbers
00000394 to 00000539
Indexes to contents

Vol. 1, No. 4 (Aug. 1976)
CUMULATIVE INDEXES
to contents of year's accumulation

VOLUME TWO

Vol. 2, No. 1 (Jan. 1977)
Project Numbers
00000540 to 00000716
Indexes to contents

Vol. 2, No. 2 (April 1977)
Project Numbers
00000717 to 00000891
Indexes to contents

Vol. 2, No. 3 (Nov. 1977)
Project Numbers
00000892 to 00001080
Indexes to contents

Vol. 2, No. 4 (Dec. 1977)
CUMULATIVE INDEXES
to contents of year's accumulation

Volume 2, No. 4 (Dec. 1977)
ADDENDUM TO CUMULATIVE INDEXES
Updated location information for Volume 1 and 2

VOLUME THREE

Vol. 3, No. 1 (Aug. 1978)
Project Numbers
00001081 to 00001224
Indexes to contents

Vol. 3, No. 2 (Dec. 1978)
Project Numbers
00001225 to 00001362
Indexes to contents

Vol. 3, No. 3 (Jan. 1979)
CUMULATIVE INDEXES
to contents of year's accumulation

VI

REPORTING FORM
ENERGY RESEARCH INFORMATION SYSTEM
Old West Regional Commission

INSTRUCTIONS: Please complete the relevant categories of the Reporting Form for each energy-related project currently being conducted or recently completed by your organization in the States of the Old West Region. If an umbrella project covers several separate studies, fill out a form for each one, as well as for the umbrella project. If you want any of the information you provide to be omitted from ERIS publications, make a note of this in Category 17, "Special Instructions for Proprietary Information."

In order to assist us in assigning keywords for computer access to your research information, we ask that you circle the most descriptive words and phrases of the Title and Abstract. If necessary, add additional terms of your own choosing.

If you are amending previously submitted information, please note this on the Reporting Form.

PLEASE RETURN COMPLETED REPORTING FORM(S) TO: ERIS, OLD WEST REGIONAL COMMISSION, 228 HEDDEN-EMPIRE BLDG., BILLINGS, MT 59101. PHONE: (406) 657-6665 (Commercial) or 585-6665 (FTS).

1. Date prepared _____ Respondent _____

   Check one: _____Original Information _____Amendment to ERIS Project No._____

2. **PROJECT/PROGRAM TITLE** (circle keywords) _____

   _____

   _____

3. **PROJECT NUMBER** (descriptive no. used by your organization) _____

4. **PRINCIPAL INVESTIGATOR** (include organization name and address)

   INVESTIGATOR_____PHONE NO._____

   ORGANIZATION _____

   ADDRESS _____

   _____

   OTHER INVESTIGATORS:

   _____

   _____

5. **RESEARCH INSTITUTION** (institution/organization where or through which research is performed if different than 4 above)

   ORGANIZATION _____PHONE NO._____

   ADDRESS _____

   _____

6. **COOPERATOR(S)** (organization(s) which provides time and/or resources toward the project but does not conduct, supervise, or fund the research)

ORGANIZATION _____

PROJECT MONITOR _____ PHONE NO. _____

ADDRESS _____

_____

7. **PRIMARY SPONSOR** (organization which provides funds)

ORGANIZATION _____

PROJECT MONITOR _____ PHONE NO. _____

ADDRESS _____

_____

8. **OTHER SPONSORS** (provide names of organizations which provide secondary funds)

_____

_____

_____

9-10. **FUNDING AMOUNTS**

Type of accounting period: _____ Calendar year _____ Fiscal Year

Enter the **TOTALS** from each sponsor in the appropriate blanks. If the breakdown is known, enter the yearly amounts in the appropriate blanks.

Organizations from 7 and 8 above	197____	197____	197____	Total
(Primary) _____	$ _____	$ _____	$ _____	$ _____
(Other) _____	$ _____	$ _____	$ _____	$ _____
_____	$ _____	$ _____	$ _____	$ _____
_____	$ _____	$ _____	$ _____	$ _____
Total Funding				$ _____

11. **TIME FRAME:** Starting Date _____ Ending Date _____
mo. day yr. mo. day yr.

12. **ACTUAL COMPLETION DATE** (leave blank if not completed) _____
mo. day yr.

13. **LOCATION:** States and Counties; other location information — Region, River Basin, Cities, Township/Range/Section, etc.

STATES AND COUNTIES _____

OTHER LOCATION INFORMATION _____

14. **ABSTRACT:** Problem, Objectives, and Approach (in free form, 100-200 words)
PLEASE CIRCLE KEYWORDS AND PHRASES. Add other descriptors if necessary.

14-A. **NUMBER OF FULL TIME EMPLOYEES** and graduate students, excluding clerical personnel. If several people work part time, add the fractions of their time spent on the project and round off to the nearest whole number.

Years	Scientists & Engineers	Graduate Students	Totals
197___			
197___			
197___			

15. **REPORTS AND PUBLICATIONS** (title, authors, report number, date, issuing agency)

16. **AVAILABILITY OF REPORTS AND PUBLICATIONS** (indicate organization and mailing address where reports can be obtained; also indicate cost and order number if appropriate)

17. **SPECIAL INSTRUCTIONS FOR PROPRIETARY INFORMATION** (enter category number and information which you desire to be omitted from published material)

18. **A. TYPE OF STUDY OR PROGRAM** (check all that apply)

1) ☐ Basic research

2) ☐ Applied research

3) ☐ Demonstration project or program not involving research (eg, a community technical assistance program)

4) Environmental Impact Statement

5) ☐ Other_____

B. TYPE OF DATA COLLECTED (check all that apply)

1) ☐ Primary data sources
   a. ☐ Field study
   b. ☐ Lab. study
   c. ☐ Both of the above

2) ☐ Secondary data sources

3) ☐ Both 1 and 2 above

C. PROJECT AFFILIATION (check one of the following)

1) ☐ The study described on this Reporting Form is an umbrella project or program. It encompasses two (2) or more separate studies which are subcontracted and/or of differing subject content. Please provide Reporting Forms for the separate projects or incorporate them onto this Reporting Form.

2) ☐ The study described on this Reporting Form is a part of an umbrella project or program. Please provide umbrella project name and overall coordinating organization below.

_____

_____

3) ☐ The study is a separate project or program in and of itself.

THANK YOU FOR COMPLETING THIS REPORTING FORM.

r.12/77

X

ENERGY RESEARCH INFORMATION SYSTEM

XI

CUMULATIVE
LOCATION-STATE INDEX

THE LOCATION-STATE INDEX CONTAINS STATE NAMES, UTILIZING THE STANDARD TWO-DIGIT ABBREVIATIONS.

OTHER LOCATION NAMES SUCH AS COUNTIES, RIVER BASINS AND GEOGRAPHIC FORMATIONS CAN BE FOUND IN THE SUBJECT INDEX.

LOCATION-STATE INDEX

AK

00001154 00001177 00001345

AZ

00001107 00001108 00001111 00001155 00001169 00001177 00001191 00001200 00001214 00001215 00001216
00001242 00001255 00001259 00001262 00001268 00001269 00001272 00001279 00001310 00001360 00001361

CA

00001214 00001215 00001242 00001331 00001360

CO

00001081 00001090 00001091 00001099 00001104 00001107 00001108 00001111 00001155 00001169 00001177
00001191 00001198 00001199 00001211 00001214 00001215 00001217 00001224 00001228 00001242 00001255
00001258 00001259 00001261 00001268 00001269 00001272 00001279 00001284 00001285 00001288 00001291
00001310 00001328 00001354 00001359 00001361

DC

00001109

FL

00001360

GX *

00001168 00001227 00001261 00001328

HI

00001330

IA

00001211 00001265 00001272 00001286 00001287

ID

00001113 00001129 00001132 00001154 00001164 00001166 00001169 00001184 00001214 00001215 00001242
00001285 00001286 00001287 00001289 00001292 00001325 00001341 00001344 00001350 00001355 00001361
00001362

IL

00001104 00001286 00001287 00001292 00001350

IN

00001292

MI

00001272 00001289 00001292

MN

00001113 00001244 00001265 00001286 00001287 00001289 00001292 00001294 00001350

MS

00001350

MT

00001081 00001084 00001087 00001088 00001089 00001090 00001091 00001092 00001093 00001094 00001095
00001096 00001097 00001099 00001100 00001101 00001102 00001103 00001104 00001105 00001106 00001107
00001108 00001110 00001111 00001112 00001113 00001114 00001115 00001125 00001127 00001128 00001129
00001130 00001131 00001132 00001133 00001134 00001135 00001136 00001137 00001138 00001139 00001140
00001141 00001142 00001143 00001144 00001145 00001147 00001148 00001149 00001151 00001152 00001153
00001154 00001155 00001157 00001158 00001160 00001161 00001162 00001163 00001164 00001166 00001167
00001169 00001170 00001171 00001172 00001174 00001175 00001176 00001177 00001181 00001184 00001185
00001186 00001187 00001188 00001189 00001190 00001191 00001192 00001193 00001194 00001197 00001198
00001199 00001200 00001201 00001204 00001205 00001206 00001211 00001212 00001214 00001215 00001216
00001217 00001218 00001219 00001220 00001224 00001225 00001226 00001228 00001231 00001232 00001233
00001234 00001238 00001239 00001240 00001241 00001242 00001243 00001246 00001247 00001248 00001249
00001250 00001251 00001254 00001255 00001257 00001258 00001259 00001261 00001262 00001264 00001266
00001267 00001268 00001269 00001273 00001274 00001275 00001276 00001277 00001278 00001279 00001280
00001285 00001286 00001287 00001289 00001292 00001293 00001294 00001295 00001296 00001297 00001298
00001299 00001300 00001301 00001302 00001303 00001304 00001305 00001306 00001307 00001308 00001311
00001312 00001313 00001314 00001315 00001316 00001317 00001318 00001319 00001320 00001321 00001323
00001324 00001325 00001326 00001327 00001328 00001329 00001332 00001333 00001334 00001336 00001337

*GX SIGNIFIES PROJECTS OF GENERAL APPLICABILITY NOT GEOGRAPHICALLY BOUND TO A STATE

LOCATION-STATE INDEX

	00001338	00001339	00001340	00001341	00001342	00001347	00001348	00001349	00001353	00001354	00001355
	00001356	00001358	00001359	00001360	00001361	00001362					
NC											
	00001350										
ND											
	00001087	00001090	00001091	00001096	00001097	00001099	00001104	00001105	00001107	00001108	00001110
	00001111	00001113	00001155	00001171	00001172	00001177	00001191	00001199	00001200	00001207	00001208
	00001209	00001211	00001212	00001214	00001215	00001216	00001217	00001218	00001224	00001225	00001228
	00001234	00001238	00001244	00001245	00001251	00001255	00001256	00001257	00001258	00001259	00001261
	00001265	00001270	00001279	00001286	00001287	00001289	00001292	00001294	00001295	00001352	00001354
	00001355	00001357	00001360								
NE											
	00001108	00001111	00001155	00001171	00001172	00001225	00001251	00001259	00001265	00001285	00001322
	00001350	00001355									
NH											
	00001350										
NM											
	00001091	00001099	00001104	00001107	00001108	00001111	00001155	00001169	00001177	00001191	00001198
	00001199	00001200	00001214	00001215	00001216	00001217	00001228	00001234	00001238	00001242	00001258
	00001259	00001262	00001268	00001269	00001279	00001310	00001344	00001360	00001361		
NV											
	00001108	00001111	00001155	00001168	00001169	00001175	00001214	00001215	00001242	00001310	00001325
	00001359	00001360									
NY											
	00001292										
OH											
	00001104	00001286	00001287	00001292							
OR											
	00001129	00001132	00001150	00001154	00001164	00001166	00001184	00001214	00001215	00001242	00001325
	00001344	00001350	00001362								
PA											
	00001104	00001286	00001287	00001292							
SD											
	00001083	00001090	00001108	00001111	00001126	00001146	00001155	00001156	00001171	00001172	00001178
	00001179	00001198	00001202	00001203	00001211	00001212	00001214	00001215	00001218	00001223	00001224
	00001225	00001234	00001238	00001251	00001252	00001259	00001265	00001268	00001269	00001279	00001285
	00001286	00001287	00001294	00001295	00001335	00001347	00001354	00001355	00001360	00001361	00001361
TX											
	00001272	00001344	00001346								
UT											
	00001090	00001091	00001099	00001104	00001107	00001108	00001111	00001155	00001169	00001191	00001198
	00001199	00001200	00001214	00001215	00001216	00001217	00001224	00001228	00001242	00001258	00001259
	00001262	00001272	00001279	00001281	00001285	00001288	00001291	00001344	00001354	00001355	00001359
	00001361										
WA											
	00001113	00001129	00001132	00001150	00001154	00001164	00001166	00001184	00001214	00001215	00001242
	00001292	00001325	00001345	00001360	00001361	00001362					
WI											
	00001265	00001292	00001294								
WV											
	00001286	00001287									
WY											
	00001082	00001085	00001086	00001087	00001090	00001091	00001093	00001095	00001096	00001097	00001098
	00001099	00001103	00001104	00001105	00001107	00001108	00001110	00001111	00001116	00001117	00001118
	00001119	00001120	00001121	00001122	00001123	00001124	00001126	00001132	00001150	00001154	00001155

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00001158	00001165	00001166	00001171	00001172	00001173	00001177	00001178	00001180	00001182	00001183
00001184	00001191	00001195	00001196	00001198	00001199	00001200	00001202	00001204	00001210	00001212
00001213	00001214	00001215	00001216	00001217	00001218	00001221	00001222	00001224	00001225	00001228
00001229	00001230	00001234	00001235	00001236	00001237	00001238	00001241	00001242	00001251	00001253
00001257	00001258	00001259	00001260	00001261	00001263	00001268	00001269	00001271	00001272	00001273
00001279	00001280	00001281	00001282	00001283	00001284	00001285	00001288	00001290	00001291	00001295
00001309	00001310	00001330	00001331	00001343	00001344	00001345	00001346	00001347	00001351	00001354
00001355	00001359	00001361								

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CUMULATIVE
PERSONAL NAME INDEX

THE PERSONAL NAME INDEX CONTAINS THE NAMES OF THE INVESTIGATORS, SUPERVISORS, PROJECT MONITORS AND OFFICERS, AND AUTHORS OF PUBLICATIONS FOR EACH PROJECT.

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DOERKSEN, H. 00001117
00001211 00001215

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EASTVEDT, R. B. 00001166
EINEIGL, C. J. 00001334
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ELIEZAR, I. 00001225
ELLIOTT, J. 00001306
ENGELLANT, D. 00001190
ERDMAN, J. A. 00001200
ERNST, L. A. 00001253
EVERSMAN, S. 00001246
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FIELDS, R. 00001342
FIFIELD, L. 00001208
FISCHER, D. 00001271
FITZPATRICK, J. 00001095
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